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1. Document ID: WO 9713920 A1 CN 1166189 A EP 801172 A1 JP 09511846 X KR
97706026 A US 5905046 A TW 403801 A

L3: Entry 1 of 1

File: DWPI

Apr 17, 1997

DERWENT-ACC-NO: 1997-235944

DERWENT-WEEK: 200152

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TITLE: Biodegradable and hydrolysable sheet, useful as wet wipes etc. - comprises biodegradable synthetic fibres, natural fibres and/or regenerated fibres bonded with binder that lost most of its adhesive power in water

INVENTOR: ARITA, C; ICHISE, N ; MATSUOKA, F ; OKUBO, T ; OTANI, C ; TAKEDA, Y ;
YOSHIOKA, Y ; MASUDA, C

PATENT-ASSIGNEE:

ASSIGNEE

CODE

UNI-CHARM KK

UNICN

UNITIKA LTD

NIRA

PRIORITY-DATA: 1995JP-0264566 (October 13, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9713920 A1	April 17, 1997	J	027	D21H013/24
CN 1166189 A	November 26, 1997		000	D21H013/24
EP 801172 A1	October 15, 1997	E	012	D21H013/24
JP 09511846 X	December 22, 1997		000	D21H013/24
KR 97706026 A	November 3, 1997		000	A61L015/26
US 5905046 A	May 18, 1999		000	D04H001/00
TW 403801 A	September 1, 2000		000	D21H013/08

DESIGNATED-STATES: CA CN JP KR SG US VN AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL
PT SE BE DE FR GB IT NL SE

CITED-DOCUMENTS: EP 550490 ; JP 274694 ; JP 6500603 ; JP 7133569 ; JP 7189098 ; JP
73600 ; JP 770896 ; WO 9205311

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9713920A1	October 11, 1996	1996WO-JP02974	
CN 1166189A	October 11, 1996	1996CN-0191211	
EP 801172A1	October 11, 1996	1996EP-0933641	
EP 801172A1	October 11, 1996	1996WO-JP02974	
EP 801172A1		WO 9713920	Based on
JP 09511846X	October 11, 1996	1996WO-JP02974	
JP 09511846X	October 11, 1996	1997JP-0511846	
JP 09511846X		WO 9713920	Based on
KR 97706026A	October 11, 1996	1996WO-JP02974	
KR 97706026A	March 29, 1997	1997KR-0702083	
US 5905046A	October 11, 1996	1996WO-JP02974	
US 5905046A	April 23, 1997	1997US-0817723	
US 5905046A		WO 9713920	Based on
TW 403801A	October 15, 1996	1996TW-0112583	

INT-CL (IPC): A61 L 15/26; D04 H 1/00; D04 H 1/12; D21 H 13/08; D21 H 13/24; D21 H 17/27; D21 H 27/00

ABSTRACTED-PUB-NO: US 5905046A
BASIC-ABSTRACT:

A biodegradable and hydrolysable sheet comprises at least one biodegradable synthetic fibre, one or more natural fibres and/or regenerated fibres, in which the fibres are bonded to one another with a binder that can substantially lose its adhesive power in water.

Pref. the biodegradable synthetic fibre is partic. of aliphatic polyester structure that includes (a) polyethylene succinate, (b) copolymer obtd. by copolymerisation of ethylene succinate with butylene succinate, butylene adipate and butylene sebacate, (c) polybutylene sebacate, (d) copolymer obtd. by copolymerisation of butylene sebacate with butylene adipate and butylene sebacate, and (e) blends of these polymers; or poly(D-lactic acid), poly(L-lactic acid), copolymer of D-lactic acid and L-lactic acid, copolymer of D-lactic acid and hydroxycarboxylic acid, copolymer of L-lactic acid and hydroxycarboxylic acid, or blends of these polymers. The binder is esp. formed from carboxymethylcellulose or its salts. Wt. ratio of biodegradable synthetic fibres and natural fibres and/or regenerated fibres is 20/80-75/25. Amt. of binder w.r.t. total wt. is 1-30%.

USE - The sheet may be used as wet wipes and toilet-flushable materials.

ADVANTAGE - The sheet has excellent tensile strength, softness and liq. absorption capability as well as desirable biodegradability. When flushed away e.g. in a flush toilet, the sheet does not cause any significant increase in solid residues in a septic tank and sewage treatment equipment.

ABSTRACTED-PUB-NO:

WO 9713920A
EQUIVALENT-ABSTRACTS:

A biodegradable and hydrolysable sheet comprises at least one biodegradable synthetic fibre, one or more natural fibres and/or regenerated fibres, in which the fibres are bonded to one another with a binder that can substantially lose its adhesive power in water.

Pref. the biodegradable synthetic fibre is partic. of aliphatic polyester structure that includes (a) polyethylene succinate, (b) copolymer obtd. by copolymerisation of ethylene succinate with butylene succinate, butylene adipate and butylene sebacate, (c) polybutylene sebacate, (d) copolymer obtd. by copolymerisation of butylene sebacate with butylene adipate and butylene sebacate, and (e) blends of these polymers; or poly(D-lactic acid), poly(L-lactic acid), copolymer of D-lactic acid and L-lactic acid, copolymer of D-lactic acid and hydroxycarboxylic acid, copolymer of L-lactic acid and hydroxycarboxylic acid, or blends of these polymers. The binder

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CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: BIODEGRADABLE HYDROLYSIS SHEET USEFUL WET WIPE COMPRISE BIODEGRADABLE SYNTHETIC FIBRE NATURAL FIBRE REGENERATE FIBRE BOND BIND LOST ADHESIVE POWER WATER

DERWENT-CLASS: A23 A96 D22 F04 F09 P34

CPI-CODES: A09-A07; A12-V04; D09-C04; F04-E; F04-E04;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; H0000 ; P1978*R P0839 D01 D50 D63 F41 ; S9999 S1070*R ; S9999 S1161*R S1070 ; S9999 S1263 S1070 ; H0022 H0011 ; S9999 S1581 ; S9999 S1183 S1161 S1070 Polymer Index [1.2] 018 ; E13 E00 E17 D01 D11 D10 ; P1978*R P0839 D01 D50 D63 F41 ; S9999 S1070*R ; S9999 S1161*R S1070 ; S9999 S1263 S1070 ; L9999 L2528 L2506 ; L9999 L2186*R ; S9999 S1092 S1070 ; S9999 S1581 ; S9999 S1183 S1161 S1070 Polymer Index [1.3] 018 ; ND01 ; Q9999 Q8004 Q7987 ; B9999 B3145 B3010 ; B9999 B3521*R B3510 B3372 ; B9999 B4171 B4091 B3838 B3747 ; B9999 B3383*R B3372 ; B9999 B3407 B3383 B3372 ; B9999 B3021 B3010 ; B9999 B3827 B3747 ; K9745*R ; Q9999 Q9132 Polymer Index [2.1] 018 ; Na 1A ; R01835 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D60 D76 D92 F24 F34 F38 F35 H0293 P0599 G3623 ; R06717*R G3678 G3634 G3623 P0599 D01 D03 D11 D10 D23 D22 D31 D42 D50 D61 D76 D92 F24 F34 F38 F35 H0293 Polymer Index [2.2] 018 ; ND01 ; Q9999 Q8004 Q7987 ; B9999 B3145 B3010 ; B9999 B3521*R B3510 B3372 ; B9999 B4171 B4091 B3838 B3747 ; B9999 B3383*R B3372 ; B9999 B3407 B3383 B3372 ; B9999 B3021 B3010 ; B9999 B3827 B3747 ; K9745*R ; Q9999 Q9132 Polymer Index [2.3] 018 ; Q9999 Q6791 Polymer Index [2.4] 018 ; Na 1A ; H0157

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-075746

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1

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